

Menopause is a risk factor, in long term, to the increased incidence of osteoporosis. Attending to this subject importance, and in order to determinate the level of evidence of isoflavones prescription in osteoporosis prevention in postmenopausal women, it was considered pertinent the preparation of this review. We performed a literature search in databases of National Guideline Clearinghouse, Cochrane Library, Canadian Medical Association Practice Guidelines InfoBase, DARE, Bandolier, Evidence based Medicine online and Pubmed in the last decade studies in English and Portuguese, using the terms MeSH: "Isoflavones" and "Bone Density." For stratified the level of evidence and strength of recommendation, the SORT scale of the American Academy of Family Physicians was used. Inclusion criteria: PICO (Population: postmenopausal women; Intervention: isoflavones; Comparison: other treatments or no one; Outcome: prevention of decreased bone density). 282 articles were founded and 11 were selected for review, including 4 meta-analyzes, 3 systematic reviews and 4 randomized controlled trials. Analyzed studies revealed the existence of controversy in this subject. One meta-analysis and 3 systematic review concluded that isoflavones may prevent osteoporosis in postmenopausal women, however this effect will depend on factors such as the dose, the treatment duration and the time since menopause. It is also necessary to consider possible interactions between isoflavones and anti-osteoporotic drugs, so it is premature to recommend the prescription of these supplements. A meta-analysis was inconclusive. 4 clinical trials and 2 meta-analyzes concluded there is no benefit in supplementation with isoflavones in the prevention of osteoporosis. With this review we concluded that isoflavones may have some effect in preventing osteoporosis but there is insufficient evidence to justify their prescription for this purpose (level of evidence 1, grade A of recommendation).

## P07. EARLY MENOPAUSE AND DECLINE OF BONE MINERAL DENSITY – A CLINICAL REPORT

Ângela Lee Chin, Ana Filipa Vicente, Olena Berezovska Lourenço  
*Medicina Geral e Familiar.*

Osteoporosis is the most common bone disease characterized by increased loss of bone mass and deterioration of its microstructure, increasing the risk of fracture. There are multiple risk factors for its development, particularly affecting women after menopause. We report the case of 35 years old woman that came to our general practice consultation in January 2016, with complaints of intense back pain and low back pain without irradiation, with months of evolution, without history of previous trauma and pain with mechanical characteristics. From her case history stands out: early menopause when she was 21, secondary to chemotherapy and radiation therapy due to invasive ductal carcinoma of the breast in 2001; Acute lymphoblastic leukemia in 2006 followed by new chemotherapy, radiation therapy, long term corticosteroid therapy and bone marrow transplant in 2007; bilateral hip prosthesis after aseptic necrosis in 2008, with dysmetria of members. She remains being followed by Oncology. Bone densitometry in 2015 compatible with osteopenia, having as chronic medication calcium and cholecalciferol. On the objective examination, is observed limbing, without pain on palpation of the spinous process of vertebra or others changes. We prescribed topical anti-inflammatory, oral muscle relaxant and analgesic therapy. The radiography of column and bilateral hip excluded osteoporotic fractures. The osteoarticular complaints in this context could be attributed to an osteoporotic fracture, and bone metastasis, but this probability is reduced by frequent follow-up in oncology. Considering to early menopause and osteopenia, it is indicated supplementation with calcium and vitamin D. Furthermore, hormone replacement therapy is contra-indicated in this patient. The family doctor, with his holistic approach and continuity of care,

is essential in the early detection of the disease, taking into account the risk factors of this patient, and also in reinforcement of the implementation of long-term preventive measures (pharmacological and non-pharmacological).

## P08. EPIDEMIOLOGY OF LOWER LIMB FRACTURES IN UKRAINIAN POPULATION

Nataliia Grygorieva, Volodymyr Vayda, Roman Vlasenko, Ostap Zubach

*Institute of Gerontology named D.F. Chebotarev NAMS Ukraine.*

**Introduction:** Fractures are a considerable public health burden but information on their epidemiology in Ukraine is limited.

**Objectives:** The aim of the study was to establish the incidence of lower limb fractures in Ukrainian population.

**Methods:** We identified 665 subjects from 76,765 citizens, living in Vinnitsa region, who had a first time (incident) diagnosis of lower limb fractures recorded in the regional Hospital database from 1.01.2011 to 31.12.2011.

**Results:** Frequency the lower limb fractures of was 42.4% from the total fractures in all patients and 44.4% from the total fractures in patient aged 50 years and older. The most common anatomic site of lower limb fractures was the tibia and/or fibula (48.9% of all incident lower limb fractures), followed by the hip (29.5%), and the tarsal/metatarsal bones (21.6%). Incidence of fracture in patient 50 years and old was 519.8 per 10,000 patient for lower limb fractures, 212.3 per 10,000 patient for tibia and/or fibula fractures and 226.9 per 10,000 patient for hip fracture. Lower limb fractures were more common among males than among females in the younger age groups (up to 39 years old). Among subjects 50 years and older the incidence of lower limb fractures was higher in women than in men, and the difference increased with increasing age. Incidence of the tibia and/or fibula fractures was 340.7 per 10,000 patient in the age group 60-69 years old, 44.9 per 10,000 patient in age group 70-79 years old, and 102.4 per 10,000 patient in age group 80-89 years old.

**Conclusions:** Our study provided the new information about the epidemiology of lower limb fractures in Ukrainian population according the age. This information is important for planning of the prevention and treatment strategy in patients of different ages.

## P09. FEMORAL FRACTURE, REALITY IN A FAMILY HEALTH UNIT

Ana Sara Rodrigues, Rita Gomes

*Medicina Geral e Familiar.*

**Introduction:** Osteoporosis is characterized by low bone mass and deterioration of bone microarchitecture, weakening the bone and increasing the risk of fracture. Post-menopausal women and elderly men and women are the groups which are at greater risk of suffering from osteoporotic fractures.

**Objectives:** To assess the prevalence of hip fracture at the Family Health Unit and verify the indication for bone osteodensitometria.

**Methods:** Cross-sectional study. We analyzed all patients coded with the diagnosis of hip fracture (L75 coding) during the year of 2015. The data were obtained from the MIM@UF program.

**Results:** In the year of 2015, a total of 13 patients were coded with femoral fracture, with a prevalence of 0.13%. Regarding the sample of users, 4 were males and 9 of the patients were female. Patients were between 57 and 105 years old, with an average age of 83.7 years. Of the total patients evaluated, none previously had a bone osteodensitometria prescription or pharmacological treatment with anti-resorptive therapy.